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Amendments to the Claims

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims

1-3. (Cancelled)

- 4. (Currently Amended) A method of monitoring the status determining the likelihood of progression of a multiple myeloma-related plasmaproliferative disorder in an individual to multiple myeloma, said method comprising:
- (a) providing a first bone marrow preparation <u>supernatant</u> from said individual diagnosed with a multiple myeloma-related plasmaproliferative disorder and a second bone marrow preparation supernatant from a normal individual; and
- (b) quantitating the amount of IL-6 produced by stromal cells cultured with said first bone marrow preparation <u>supernatant</u> and the amount of IL-6 produced by stromal cells cultured with said second bone marrow <u>preparations</u> <u>preparation</u> <u>supernatant</u>, wherein progression to multiple myeloma is indicated if said amount of IL-6 produced by stromal cells cultured with said first bone marrow preparation <u>supernatant</u> is greater than said amount of IL-6 produced by stromal cells cultured with said second bone marrow preparation <u>supernatant</u>, and wherein progression to multiple myeloma is not indicated if said amount of IL-6 produced by stromal cells cultured with said first bone marrow preparation <u>supernatant</u> is less than or similar to said amount of IL-6 produced by stromal cells cultured with said second bone marrow preparation <u>supernatant</u>.
- 5. (Currently Amended) The method of claim 4, wherein said multiple myeloma-related plasmaproliferative disorder in said individual is smoldering multiple myeloma.

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6-7. (Cancelled)

8. (Currently Amended) The method of claim 4, wherein said first bone marrow preparation supernatant is a fresh supernatant from cultured bone marrow cells from said individual diagnosed with a multiple myeloma-related plasmaproliferative disorder.

9-14. (Cancelled)

- 15. (Currently Amended) A method of monitoring determining the status of multiple myeloma in an individual, said method comprising:
- a) obtaining an earlier bone marrow preparation <u>supernatant</u> and a later bone marrow preparation <u>supernatant</u> from said individual, said individual undergoing treatment for multiple myeloma, at least one of said bone marrow <u>preparations</u> <u>preparation</u> supernatants <u>prepared from</u> bone marrow obtained after initiation of said treatment; and
- b) determining the amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation <u>supernatant</u> and determining the amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation <u>supernatant</u>, wherein progression of said multiple myeloma status is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation <u>supernatant</u> is greater than said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation <u>supernatant</u>, wherein improvement of said multiple myeloma status is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation <u>supernatant</u> is less than said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation <u>supernatant</u>, and wherein stability of said multiple myeloma status is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation <u>supernatant</u> is similar to said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation <u>supernatant</u>.

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16-29. (Cancelled)

- 30. (Currently Amended) The method of claim 4, wherein said multiple myeloma-related plasmaproliferative disorder in said individual is indolent multiple myeloma.
- 31. (Currently Amended) The method of claim 4, wherein said multiple myeloma-related plasmaproliferative disorder <u>in said individual</u> is monoclonal gammopathy of undetermined significance.
- 32. (Currently Amended) A method of monitoring the status determining the likelihood of progression of a multiple myeloma-related plasmaproliferative disorder in an individual to multiple myeloma, said method comprising:
- (a) providing a bone marrow preparation <u>supernatant</u> from said individual diagnosed with a multiple myeloma-related plasmaproliferative disorder; and
- (b) quantitating the amount of IL-6 produced by stromal cells cultured with said bone marrow preparation supernatant, wherein progression to multiple myeloma is indicated if said amount of IL-6 produced by said stromal cells is greater than the amount of IL-6 produced by stromal cells cultured in the presence of 1 pg/ml IL-1 β , and wherein progression to multiple myeloma is not indicated if said amount of IL-6 produced by said stromal cells is less than or the same as the amount of IL-6 produced by stromal cells cultured in the presence of 1 pg/ml IL-1 β .
- 33. (Currently Amended) The method of claim 32, wherein said multiple myeloma-related plasmaproliferative disorder <u>in said individual</u> is smoldering multiple myeloma.
- 34. (Currently Amended) The method of claim 32, wherein said multiple myeloma-related plasmaproliferative disorder <u>in said individual</u> is indolent multiple myeloma.

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35. (Currently Amended) The method of claim 32, wherein said multiple myeloma-related plasmaproliferative disorder <u>in said individual</u> is monoclonal gammopathy of undetermined significance.

- 36. (Currently Amended) The method of claim 4, wherein said first bone marrow preparation <u>supernatant</u> is a previously frozen supernatant from cultured bone marrow cells from said individual diagnosed with a multiple myeloma-related plasmaproliferative disorder.
- 37. (Currently Amended) The method of claim 15, wherein said later bone marrow preparation <u>supernatant</u> is a fresh supernatant from cultured bone marrow cells from said individual.
- 38. (Currently Amended) The method of claim 15, wherein said later bone marrow preparation <u>supernatant</u> is a previously frozen supernatant from cultured bone marrow cells from said individual.
- 39. (Currently Amended) The method of claim 32, wherein said bone marrow preparation supernatant is a fresh supernatant from cultured bone marrow cells from said individual.
- 40. (Currently Amended) The method of claim 32, wherein said bone marrow preparation supernatant is a previously frozen supernatant from cultured bone marrow cells from said individual.
- 41. (New) A method of determining the likelihood of progression of a multiple myelomarelated plasmaproliferative disorder in an individual to multiple myeloma, said method comprising:
- a) obtaining an earlier bone marrow preparation supernatant and a later bone marrow preparation supernatant from said individual; and

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b) determining the amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation supernatant and determining the amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation supernatant, wherein progression to multiple myeloma is indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation supernatant is greater than said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation supernatant, and wherein progression to multiple myeloma is not indicated if said amount of IL-6 produced by stromal cells cultured with said later bone marrow preparation supernatant is less than or similar to said amount of IL-6 produced by stromal cells cultured with said earlier bone marrow preparation supernatant.

- 42. (New) The method of claim 41, wherein said multiple myeloma-related plasmaproliferative disorder is smoldering multiple myeloma, indolent multiple myeloma, or monoclonal gammopathy of undetermined significance.
- 43. (New) The method of claim 41, wherein said earlier bone marrow preparation supernatant is a fresh supernatant from cultured bone marrow cells from said individual, or a previously frozen supernatant from cultured bone marrow cells from said individual.
- 44. (New) The method of claim 41, wherein said later bone marrow preparation supernatant is a fresh supernatant from cultured bone marrow cells from said individual, or a previously frozen supernatant from cultured bone marrow cells from said individual.